

SLIDING STRUCTURE FOR SHAFT MEMBER WITH IMPROVED ABRASION
RESISTANCE AND INJECTOR

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ABSTRACT OF THE DISCLOSURE

In a sliding structure in which a shaft member is
10 retained slidably in a guide hole, the lack of an oil
film caused by the edge contact of the shaft member to
which a pressing load in the axial direction is applied
is prevented. With the fact being taken into account that
end portions 25c1 and 25c2, which are always in slidable
15 contact with a side surface 1232a of a guide hole 1232,
of a side surface 25c of a shaft member 251 are the
partial edge portion, a plurality of labyrinth grooves
2501 and 2502 are formed in the end portions 25c1 and
25c2, respectively, thereby it is possible for an oil
20 film to cover the entire contact portion without
increasing the groove width extremely. Because the groove
width is not increased extremely, the length of the
sliding portions can be ensured.